

EXHIBIT A



US00RE34800E

United States Patent [19]
Hutchins

[11] E **Patent Number: Re. 34,800**
 [45] **Reissued Date of Patent: Nov. 29, 1994**

[54] **CARDIOPULMONARY RESUSCITATION PROMPTING**

[76] **Inventor: Donald C. Hutchins, 60 Brookdale Dr., Springfield, Mass. 01104**

[21] **Appl. No.: 938,409**

[22] **Filed: Dec. 5, 1986**

4,489,387 12/1984 Lamb et al. 128/630
 4,510,942 12/1985 Miyamae et al. 128/680
 4,588,383 5/1986 Parker et al. 434/265

FOREIGN PATENT DOCUMENTS

8418 1/1982 Japan 128/710

Primary Examiner—William E. Kamm
Attorney, Agent, or Firm—Fish & Richardson

Related U.S. Patent Documents

Reissue of:

[64] **Patent No.: 4,583,524**
Issued: Apr. 22, 1986
Appl. No.: 673,838
Filed: Nov. 21, 1984

[51] **Int. Cl.³ A61B 19/00**

[52] **U.S. Cl. 128/898; 434/262; 434/265**

[58] **Field of Search 128/1 R, 630, 680, 695-696; 434/227-228, 230, 262, 265, 321; 364/415; 381/51**

[56] References Cited

U.S. PATENT DOCUMENTS

3,520,071 7/1970 Abrahamson et al. 434/265
 4,016,540 4/1977 Hyatt 381/51
 4,023,276 5/1977 Furukawa et al. 128/696
 4,101,883 7/1978 Hempenius et al. 128/668
 4,369,345 11/1982 Hoa 434/262
 4,370,983 2/1983 Lichtenstein 128/630
 4,420,813 12/1983 Inoue et al. 381/51
 4,457,312 7/1984 Ornato et al. 128/711
 4,472,146 9/1984 Weissbrod 432/262

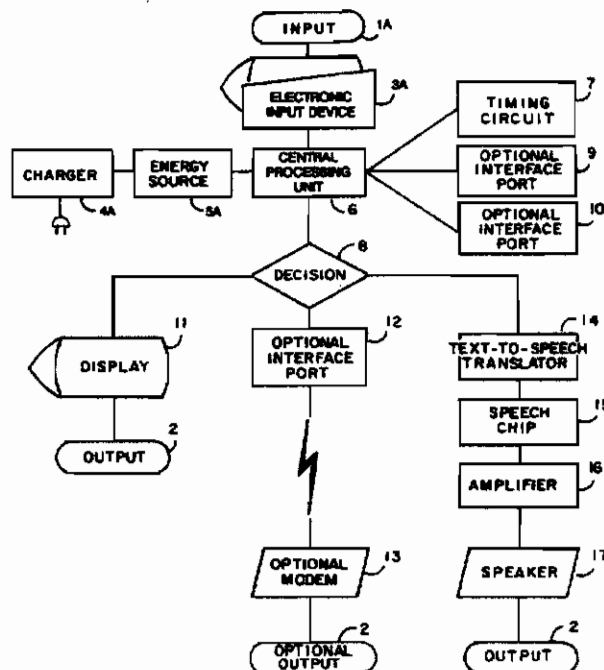
[57] ABSTRACT

A portable self-powered electronic cardiopulmonary resuscitation prompting system includes a keyboard on the front panel for turning the apparatus on, identifying the nature of the victim, the number of rescuers, whether mouth-to-mouth resuscitation is to be given and whether the victim is conscious or unconscious. The cabinet also includes an LCD display for furnishing visual information to the rescuer and a loudspeaker for providing audible intelligible prompts that are produced phonemes originating with a speech synthesizer LSI chip using the PARCOR method in response to signals provided by a microcomputer that processes the information indicated by the keyboard entries.

* * * * *

The questions raised in reexamination request No. 90/001,169, filed Feb. 17, 1987, have been considered and the results thereof are reflected in this reissue patent which constitutes the reexamination certificate required by 35 U.S.C. 307 as provided in 37 CFR 1.570(c).

16 Claims, 7 Drawing Sheets





US005913685A

United States Patent [19]

Hutchins

[11] Patent Number: **5,913,685**
 [45] Date of Patent: **Jun. 22, 1999**

[54] CPR COMPUTER AIDING

[76] Inventor: **Donald C. Hutchins**, 60 Brookdale Dr.,
Springfield, Mass. 01104

3638-192 5/1988 Germany .
 57-8418 1/1982 Japan .
 501-409 4/1976 U.S.S.R. .
 WO 91/15007 10/1991 WIPO .
 WO 91/15267 10/1991 WIPO .

[21] Appl. No.: **08/667,946**[22] Filed: **Jun. 24, 1996**[51] Int. Cl.⁵ **G09B 23/28**[52] U.S. Cl. **434/265**[58] Field of Search 434/262, 265,
434/307 R, 308, 323[56] **References Cited****U.S. PATENT DOCUMENTS**

Re. 34,800	11/1994	Hutchins	128/898
1,918,041	7/1933	Knapke	
3,520,071	7/1970	Abrahamson et al.	35/17
3,552,036	1/1971	Mahler	35/17
3,736,363	5/1973	Baessler et al.	35/17
4,000,565	1/1977	Overby et al.	35/35 A
4,016,540	4/1977	Hyatt	340/172.5
4,020,468	4/1977	Silver et al.	340/172.5
4,023,276	5/1977	Furukawa et al.	33/1 C
4,052,798	10/1977	Tomita et al.	35/9 A
4,060,915	12/1977	Conway	35/9 A
4,094,079	6/1978	Dorsett	35/8 A
4,095,590	6/1978	Harrigan	128/24 R
4,101,883	7/1978	Hempenius et al.	340/365 R
4,110,918	9/1978	James et al.	35/22 R
4,193,064	3/1980	Snyder	340/309.4
4,290,114	9/1981	Sinay	364/900
4,302,193	11/1981	Haynes	434/178
4,307,728	12/1981	Walton	128/687
4,331,426	5/1982	Sweeney	434/265
4,360,345	11/1982	Hon	434/262
4,370,983	2/1983	Lichtenstein	128/630
4,420,813	12/1983	Inoue et al.	364/513

(List continued on next page.)

FOREIGN PATENT DOCUMENTS

0 186 713 7/1986 European Pat. Off. .

OTHER PUBLICATIONS"ADA Directions" newsletter, vol. II, Issue 2 & 3, Summer
& Fall 1995.

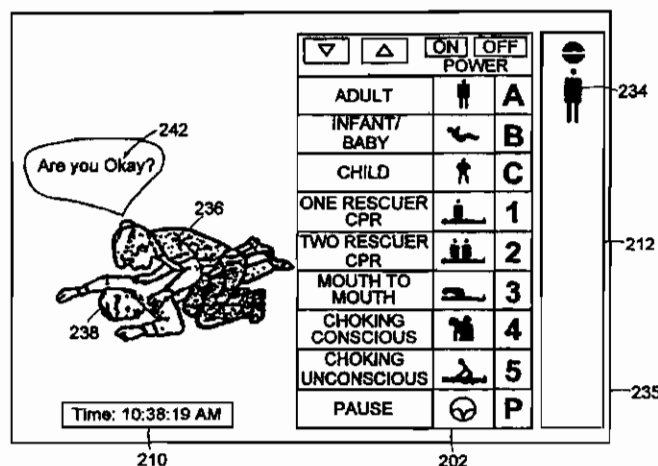
Primary Examiner—Robert A. Hafer

Assistant Examiner—John Edmund Rovnak

Attorney, Agent, or Firm—Fish & Richardson P.C.

[57] **ABSTRACT**

A cardiopulmonary resuscitation (CPR) aiding computer system provides guidance to rescue personnel trained in CPR for resuscitating a victim under an emergency condition. The system includes an input for entering information signals representative at least of characteristics of the victim relevant to proper performance of CPR techniques, a processing unit responsive to the information signals and for providing output signals representative of proper steps to be taken in resuscitating the victim, and an output, including a display, responsive to the output signals and for providing guidance signals, which include visible signals, such as animated images, on the display, of the proper steps to be taken by the rescue personnel in resuscitating the victim. In one embodiment, the output includes an audio system for producing audible guidance in response to the output signals, wherein the speech guidance is synchronized with the visible guidance. The system can be configured as a personal computer, or as a network of terminals and computers.

43 Claims, 13 Drawing SheetsMicrofiche Appendix Included
(1 Microfiche, 36 Pages)

Copyright**Search Records Results**

Registered Works Database (Author Search)

Search For: HUTCHINS, DONALD C., 1935-

Item 1 of 1

1. Registration Number: TXu-210-208
Title: Script & word list, "CPR-PROMPT."
Description: 1 v.
Claimant: Donald C. Hutchins
Created: 1985
Registered: 13Sep85
Author on © Application: Donald C. Hutchins.
Special Codes: 1/B

[Home](#) | [Contact Us](#) | [Legal Notices](#) | [Freedom of Information Act \(FOIA\)](#) | [Library of Congress](#)

U.S. Copyright Office
101 Independence Ave. S.E.
Washington, D.C. 20559-6000
(202) 707-3000



Search Records Results

Registered Works Database (Author Search)

Search For: HUTCHINS, DONALD C

Item 1 of 1

1. Registration Number: TXu-213-859

Title: LC5800 series cross assembler.

Edition: Rev. 1.0.

Description: printout.

Claimant: acDonald C. Hutchins

Created: 1985

Registered: 8Oct85

Title on © Application: LC 5800 series cross assembler.

Author on © Application: text of computer program: Donald C. Hutchins, employer for hire of Robert W. Jeffway , Jr.

Special Codes: 1/C

[Home](#) | [Contact Us](#) | [Legal Notices](#) | [Freedom of Information Act \(FOIA\)](#) | [Library of Congress](#)

U.S. Copyright Office
101 Independence Ave. S.E.
Washington, D.C. 20559-6000
(202) 707-3000

Int. Cl.: 9



Prior U.S. Cl.: 26

United States Patent and Trademark Office

Reg. No. 1,398,334
Registered June 24, 1986

**TRADEMARK
PRINCIPAL REGISTER**

CPR PROMPT

HUTCHINS, DONALD C. (UNITED STATES
CITIZEN)
60 BROOKDALE DRIVE
SPRINGFIELD, MA 01104

FOR: RESCUE AID; NAMELY, AN ELEC-
TRONIC UNIT HAVING A MICROPROCESSOR
AND VOICE SYNTHESIZER FOR LEADING A
CERTIFIED RESCUER THROUGH CARDIO-
PULMONARY RESUSCITATION PROCE-
DURES, IN CLASS 9 (U.S. CL. 26).

FIRST USE 6-20-1984; IN COMMERCE
6-20-1984.

NO CLAIM IS MADE TO THE EXCLUSIVE
RIGHT TO USE "CPR", APART FROM THE
MARK AS SHOWN.

SER. NO. 553,351, FILED 8-14-1985.

DAVID C. REIHNER, EXAMINING ATTOR-
NEY



Consumer and
Corporate Affairs Canada

Patent Office

Consommation
et Corporations Canada

Bureau des brevets

Canadian Patent

Brevet canadien

1249368

To all to whom these presents shall come:

Whereas a petition has been presented to the Commissioner of Patents praying for the grant of a patent for a new and useful invention, the title and description of which are contained in the specification of which a copy is hereunto attached and made an essential part hereof, and the requirements of the Patent Act having been complied with,

Now therefore the present patent grants to the applicant whose title thereto appears from the records of the Patent Office and as indicated in the said copy of the specification attached hereto, and to the legal representatives of said applicant for a period of seventeen years from the date of these presents the exclusive right, privilege and liberty of making, constructing, using and vending to others in Canada the invention, subject to adjudication in respect thereof before any court of competent jurisdiction.

Provided that the grant hereby made is subject to the conditions contained in the Act aforesaid.

In testimony whereof, these letters patent bear the signature of the Commissioner and the seal of the Patent Office hereunto affixed at Hull, Canada.

A tous ceux qui les présentes verront:

Considérant qu'une requête a été présentée au Commissaire des brevets, demandant la délivrance d'un brevet pour une invention nouvelle et utile, dont le titre et la description apparaissent dans le mémoire descriptif dont copie est annexée aux présentes et en fait partie essentielle, et que ladite requête satisfait aux exigences de la Loi sur les brevets,

A ces causes, le présent brevet confère au demandeur dont le titre de propriété audit brevet est établi d'après les dossiers du Bureau des brevets et est indiqué dans ladite copie du mémoire descriptif ci-annexé, et aux représentants légaux du dit demandeur, pour une période de dix-sept ans, à compter de la date des présentes, le droit, la faculté et le privilège exclusif de fabriquer, construire, exploiter et vendre à d'autres au Canada l'invention, sauf jugement en l'espèce par un tribunal de juridiction compétente.

La concession faite par les présentes étant soumise aux conditions contenues dans la loi précitée.

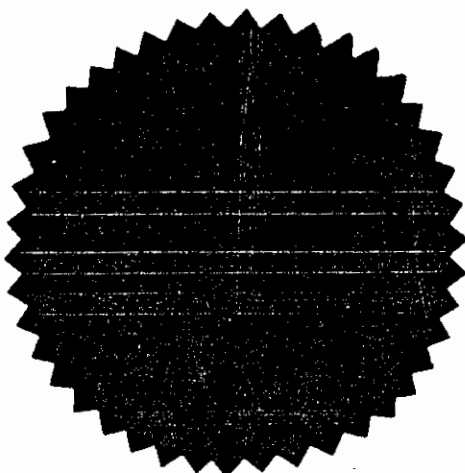
En foi de quoi ces lettres patentes portent la signature du Commissaire ainsi que le sceau du Bureau des brevets apposé à Hull, Canada.

JAN 24 1989

Commissioner of Patents Commissaire des brevets

Attesting Officer

Certificateur



Canada



Consumer and
Corporate Affairs Canada

Consommation
et Corporations Canada

(11) (A) No. 1 249 368

(45) ISSUED 890124

(52) CLASS 354-22
C.R. CL. 326-1.7

(51) INT. CL. ⁴G06F 15/00

(19) (CA) **CANADIAN PATENT** (12)

(54) Cardiopulmonary Resuscitation Prompting

(72) Hutchins, Donald G.,
U.S.A.

(21). APPLICATION No. 495,919

(22) FILED 851121

(30) PRIORITY DATE U.S.A. (06/673,838) 841121

No. OF CLAIMS 8

Canada

European Patent Specification

Filed on 18 November 1985

in respect of Application No. 85308382.2

Designating	United Kingdom	Holland
	Austria	Italy
	Belgium	Luxembourg
	France	Sweden
	W.Germany	Switzerland

Priority Claimed US

No. 673 838 Dated 21 November 1984

Applicant Donald C. HUTCHINS

Inventor Donald C. HUTCHINS

Formal Title CARDIOPULMONARY RESUSCITATION PROMPTING
APPARATUS AND METHOD

Code Title AAHUTPO1-EP

Gill Jennings & Every

Chartered Patent Agents
European Patent Attorneys

53 to 64 Chancery Lane · London · WC2A 1HN